POWER AMPLIFIER

OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant l'utiliser, prendre soin de lire ce manuel.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

شكراً لك على شرائك جهاز بايونير هذا. قبل محاولة تشغيله تأكد من قراءة هذا الدليل.

PIONEER®

GM-42A

Features

High-Power 30 W + 30 W Maximum Output

30 W + 30 W maximum output gives you sound with power to spare. The BPTL circuit means reduced distortion and improved frequency characteristics.

3 Different Built-In Protective Circuits

Three different built-in circuits (ASO protection circuit, thermal shutdown circuit and surge protector circuit) protect the high power IC from trouble due to overcurrent and heat generation.

Muting Circuit to Prevent Popping Noise

A built-in muting circuit prevents the irritating popping noise heard when power is turned on or off.

A Two Input Selector

This unit is equipped with a two input selector so that you can select from among the booster and RCA pin jack inputs according to your car stereo system.

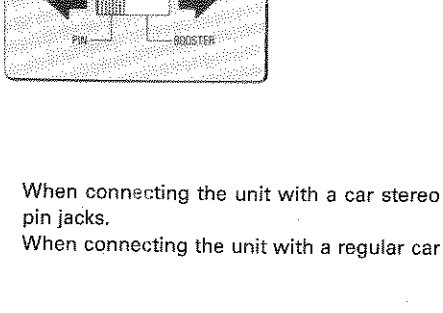
Connecting the Units

Connect the components correctly as shown in the diagram.

- Test-connect all components before securing them into place. Test-operate your entire car stereo system to ensure that there are no faulty wiring connections between this unit and the rest of your car stereo system.
- Be sure to connect only a single component as shown in the connection diagram. If two components are connected, internal circuitry may be damaged or an accident may occur.
- Speakers connected to this unit must be high power type with over 30 W maximum input power and have impedance between 4 and 8 ohms. Be aware of the fast that using a speaker other than the one specified can cause the speaker to be damaged.
- A special BPTL circuit is used to be sure that you do not connect the speaker directly to ground nor join the left and right speaker (−) leads.
- For detailed information concerning connections between different components and this unit consult their respective instruction manuals and follow those recommendations precisely.
- Wire all connecting cords so that they stay well clear of high-temperature areas such as the heater exhaust port.
- To ensure that all components used in combination with this unit operate properly, be sure to wire the main power supply cable (red) correctly to the respectively determined points. Failure to do so or errors in this process will result in total inoperation.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.

Input Selector

Be sure to set the input selector before wiring. (Fig. 1)



PIN: When connecting the unit with a car stereo with RCA pin jacks.

BOOSTER: When connecting the unit with a regular car stereo.

Fig. 1

Gain Control Adjustment

The gain control adjuster is set to the position shown in Fig. 2 when the unit is shipped from the factory. Be sure to adjust the gain control to the position shown in Fig. 3 when connecting to a regular car stereo (not equipped with RCA pin jacks).

The position shown in Fig. 3 should also be used when the volume of the car stereo output seems to be insufficient even when the volume control is set to a high level.

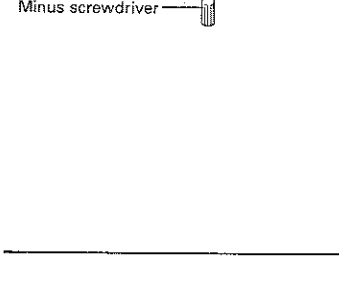


Fig. 2

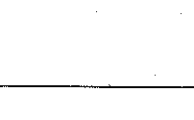
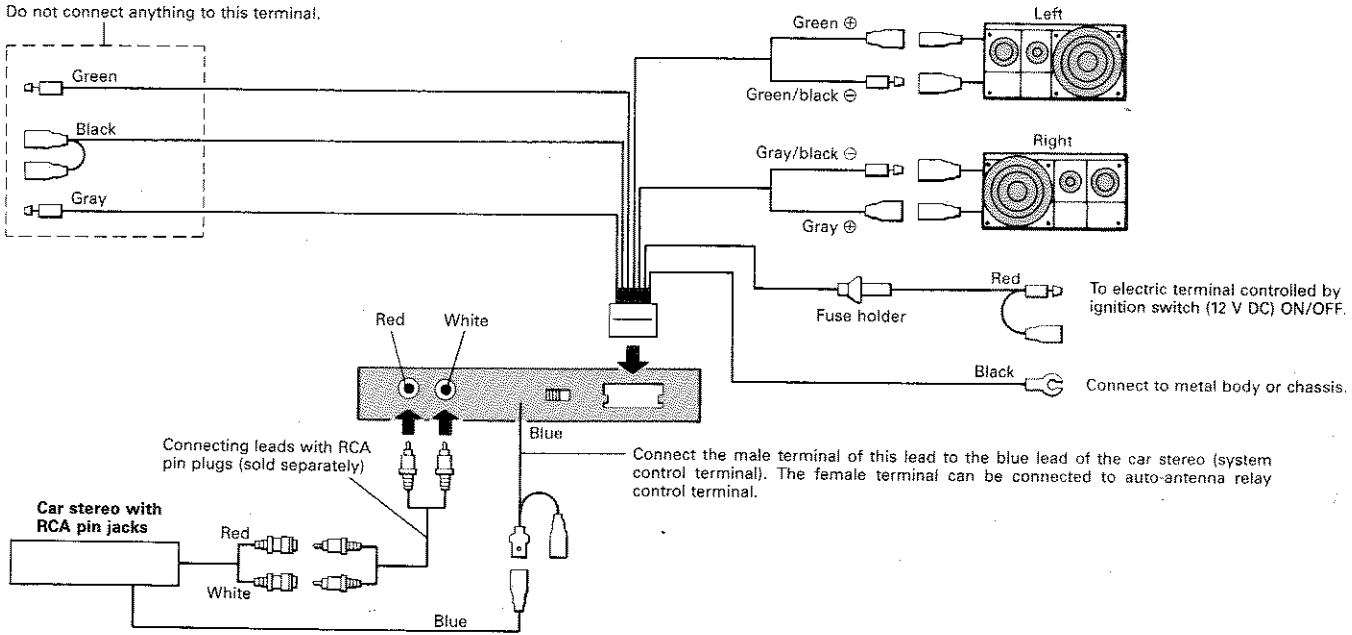


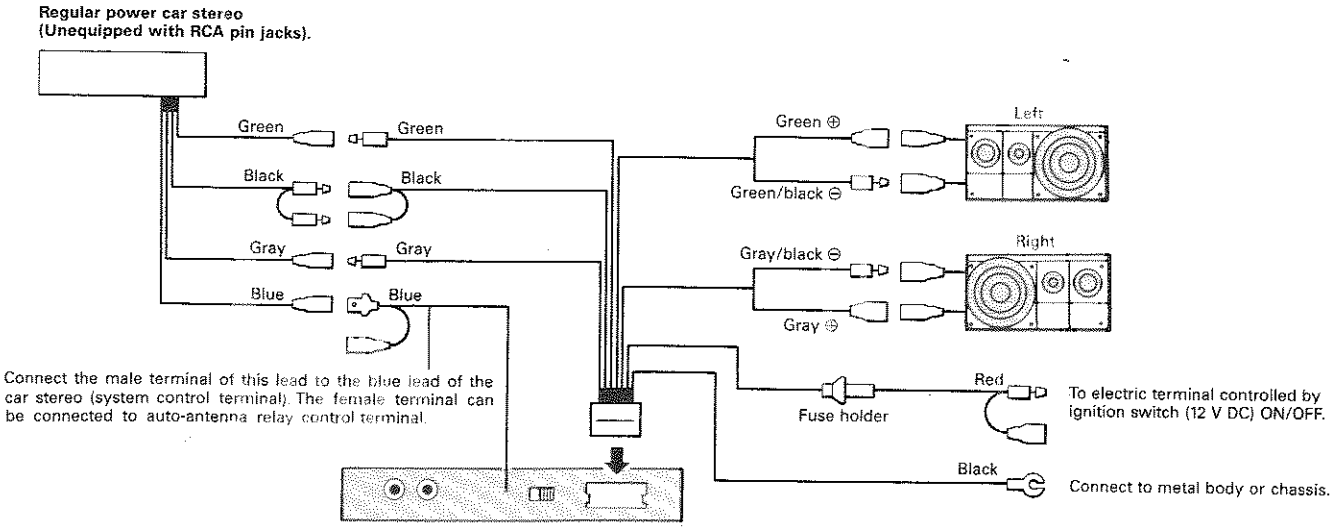
Fig. 3

When Combined with a Car Stereo with RCA Pin Jacks



When Combined with a Ragular Car Stereo

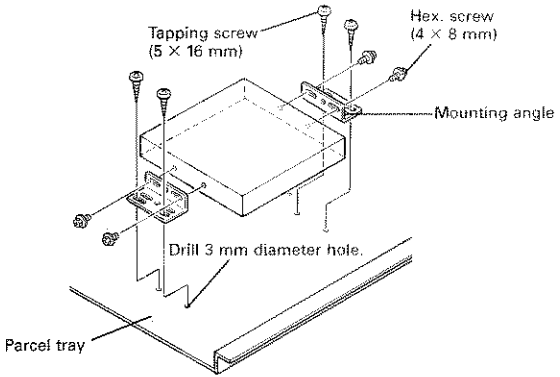
- Use a ragular power car stereo with a maximum output of 8.5 W + 8.5 W or less.



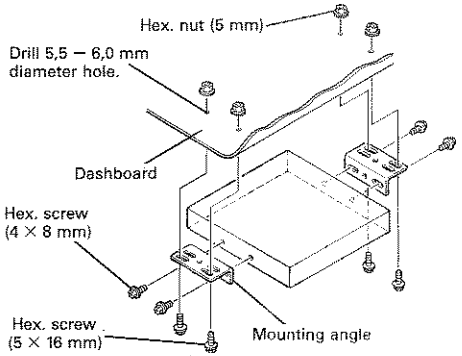
Installation

- Be sure to use the parts supplied and install the unit securely. If parts other than those supplied (specified) are used, they may loosen or cause damage to internal parts.
- Be sure to install the unit in a places where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops.
- Be sure to consult your dealer before making any holes in the car.
- Cooling efficiency is dagraded by making installations in hot places such as near the heater outlet, in the glove compartment and under floor mats that are tightly closed.
- Make sure to take off the (—) side connector on the car battery to prevent short circuits.
  When you finish the installation, be sure to make one more check to be sure everything is done correctly. Reinstall all car parts that were removed. Reconnect the negative battery cable.

Installing on the Parcel Tray



Install under the Dashboard

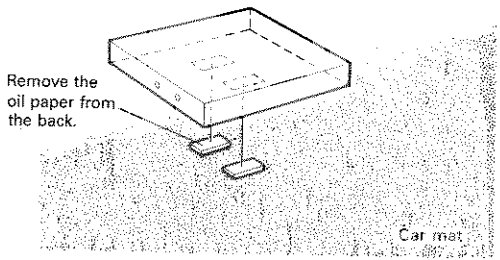


Installing on the Car Mat

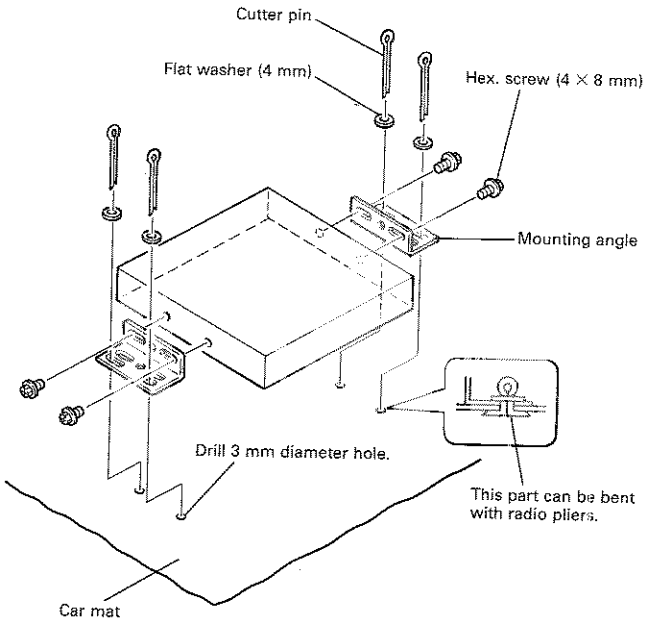
Be sure to observe the following precautions.

- Rain water easily gets on the floor near the door. Also, don't make an installation on the driver seat base because it may interfere with the driver.
- For installations under the front seat, be sure not to obstruct the seat slide. Also, be extremely careful not to let the cords get caught in the slide mechanism where they may be damaged and cause a short.

Using Magic Tape



When a Mounting Angle is Used


Cutter pin
Flat washer (4 mm)
Hex. screw (4 × 8 mm)
Mounting angle
Drill 3 mm diameter hole.
This part can be bent with radio pliers.
Car mat

Precautions

- Enough care must be taken against battery overdischarge caused by long operation of the set at a high sound level when the engine is not running or is idling.
- Replace the fuse only with the type stipulated on the fuse holder.
- Dust the heat sinks occasionally so that they will not become clogged.

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

Specifications

Power source ..... 14.4 V DC (10.8 – 15.6 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 4 A
Dimensions ..... 150(W) × 25(H) × 150(D) mm
Weight ..... 0.7 kg
Maximum power output ..... 30 W × 2 (EIAJ)
Continuous power output
..... 17 W × 2 (at 4 Ω, 1 kHz, 1% THD)
..... 13 W × 2 (at 4 Ω, 30 – 20,000 Hz, 0.8% THD)
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Frequency response ..... 20 – 50,000 Hz (±3 dB)
Signal-to-noise ratio ..... 93 dB (IEC-A network, at 1 W)
Distortion ..... 0.02% (at 10 W, 1 kHz)
Input level ..... RCA: 0.2 – 2 V/15 kΩ
BOOSTER: 3 – 30 V/120 Ω

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

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